

August 12, 2009

Mr. Scott Head, Manager  
Regulatory Affairs  
STP Nuclear Operating Company  
P. O. Box 289  
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 210 RELATED TO  
SRP SECTION 09.04.01 AND 09.04.03 FOR THE SOUTH TEXAS PROJECT  
COMBINED LICENSE APPLICATION

Dear Mr. Head

By letter dated September 20, 2007, STP Nuclear Operating Company (STP) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within **30** days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

S. Head

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If you have any questions or comments concerning this matter, I can be reached at 301-415-8484 or by e-mail at [Tom.Tai@nrc.gov](mailto:Tom.Tai@nrc.gov) or you may contact George Wunder at 301-415-1494 or [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

Sincerely,

**/RA/**

Tom M. Tai, Senior Project Manager  
ABWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-012  
52-013

eRAI Tracking No. 3108 and 3112

Enclosure:  
Request for Additional Information

cc: William Mookhoek  
James Agles

S. Head

-2-

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Request for Additional Information

cc: William Mookhoek  
James Agles

Distribution:  
PUBLIC  
NGE 1/2 R/F  
GWunder, NRO  
BAbeywickrama, NRO  
MSnodderly, NRO  
SHaider, NRO  
SKirkwood, OGC  
RidsNroDsraSbcv  
RidsNroDnrlNge2

**ADAMS Accession No. ML092240270**

NRO-002

OFFICE	SBCV/TR	SBCV/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	SHaider	MSnodderly	TTai	SKirkwood	GWunder
DATE	6/12/09	6/16/09	8/12/09	7/06/09	7/07/09

**\*Approval captured electronically in the electronic RAI system.**

**OFFICIAL RECORD COPY**

**Request for Additional Information No. 3108 Revision 2**

**South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 09.04.01 - Control Room Area Ventilation System  
Application Section: 9.4**

QUESTIONS for Containment and Ventilation Branch 2 (ESBWR/ABWR Projects) (SBCV)

**09.04.01-1**

HVAC potential contamination issues

In order to meet the objectives of 10 CFR part 20.1406, state in the appropriate sections of 9.4 of the FSAR provisions that are made to monitor and collect condensate that may form at coolers or in HVAC ducts that may contain contamination. Regulatory Guide 4.21 provides guidance in this regard. Include provisions made to monitor, contain, and control contaminated liquid and gaseous effluents that may form or be carried through all the underground HVAC ducts and piping. Include the information in the FSAR as appropriate.

Enclosure

**Request for Additional Information No. 3112 Revision 2**

**South Texas Project Units 3 and 4  
South Texas Project Nuclear Operating Co  
Docket No. 52-012 and 52-013  
SRP Section: 09.04.03 - Auxiliary and Radwaste Area Ventilation System  
Application Section: 9.4.6 Radwaste Building HVAC System**

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects)  
(CIB2)

**09.04.03-1**

Changing the Site Parameters in STP DEP T1 5.0-1:

- (A) In STP COL Tier 2, Section 9.4.6.1.2, the summer and winter indoor design temperature conditions are removed under STP DEP T1 5.0-1. Provide justification for removing the information.
- (B) According to the DCD, the Radwaste Building HVAC System design is based on an outdoor summer maximum temperature of 46°C (114.8°F). However, the departure has modified it to “1% exceedance site temperature” for the STP, i.e., 32.8°C (91°F). Provide justification for using the “1% exceedance site value” as the outdoor design temperature, instead of the 0% exceedance site temperature (46°C (114.8°F)) as certified in the ABWR DCD. It appears that the STP site temperatures do exceed 40C (104°F) during May and June. Provide a basis for using the 1% exceedance site temperatures as the summer and winter outdoor design conditions for STP.

Enclosure